

Amendments to the Claims

1-38. (Cancelled).

39. (Newly Added) A pneumatic agricultural or industrial tire comprising a casing and a rubber tread disposed radially outwardly of the casing, the tread having an inner tread and a plurality of tread lugs projecting radially from the inner tread, said casing having at least one component, said component comprising polyester cord and a rubber composition in contact with said polyester cord, wherein said polyester cord is formed by

first obtaining a cord through twisting together a plurality of polyester yarns, wherein the polyester yarns comprise a first polyepoxide prior to twisting into said cord;

secondly treating the cord with an aqueous emulsion comprising a second polyepoxide;
and

thirdly treating the cord with an aqueous RFL emulsion comprising a resorcinol-formaldehyde resin, a styrene-butadiene copolymer latex, a vinylpyridine-styrene-butadiene terpolymer latex, and a blocked isocyanate said rubber composition comprising

100 parts by weight of at least one diene based elastomer, including from about 75 to about 15 parts by weight of polybutadiene and about 25 to about 85 parts by weight of at least one additional diene based elastomer selected from the group consisting of styrene-butadiene rubber, synthetic polyisoprene and natural polyisoprene;

about 0.1 to about 8 parts by weight of at least one accelerator selected from benzothiazoles and dithiophosphates and exclusive of sulfenamides;

about 1 to about 15 parts by weight of at least one resin selected from phenol-formaldehyde resins, aliphatic cyclic hydrocarbon resins, and aromatic hydrocarbon resin;

about 10 to about 150 parts by weight of a filler selected from the group consisting of carbon black, silica, and starch/plasticizer composite filler; and

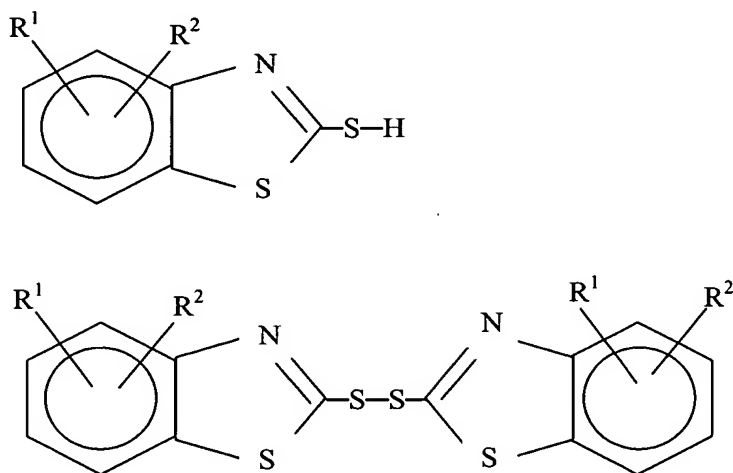
about 0.3 to about 3 parts by weight of sulfur;

wherein each lug has a width in a range of from 2 cm to 10 cm and length in a range of from 2 cm to 60 cm, and a height in a range of from 2 cm to 10 cm, and wherein the tread has a net-to-gross ratio in a range of from about 15 to about 40 percent as measured around the entire 360° circumference of a normally inflated and normally loaded tire contacting a flat hard surface.

40. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein said at least one resin is selected from phenol-formaldehyde resins and aliphatic cyclic hydrocarbon resins.

41. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein said dithiophosphate accelerator is selected from the group consisting of thioperoxydiphosphates, zinc phosphorodithioates, and basic zinc phosphorodithioates.

42. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein said at least one benzothiazole accelerator is selected from compounds having the following formulas



where R¹ and R² are independently selected from hydrogen, alkyl groups of one to six carbon atoms, or aryl groups of 6 to 10 carbon atoms.

43. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein

said benzothiazole accelerator is selected from mercaptobenzothiazole, benzothiazyl disulfide, 2-mercapto-monoalkylbenzothiazoles, such as 2-mercapto-4-methylbenzothiazole, 2-mercapto-4-ethylbenzothiazole, 2-mercapto-5-methylbenzothiazole, 2-mercapto-5-ethylbenzothiazole, 2-mercapto-6-methylbenzothiazole, and 2-mercapto-6-ethylbenzothiazole; 2-mercapto-dialkylbenzothiazoles, such as 2-mercapto-4,5-dimethylbenzothiazole and 2-mercapto-4,5-diethylbenzothiazole; 2-mercapto-monoarylbenzothiazoles, such as 2-mercapto-4-phenylbenzothiazole, 2-mercapto-5-phenylbenzothiazole, and 2-mercapto-6-phenylbenzothiazole; bis(monoalkylbenzothiazolyl-2)-disulfides, such as bis(4-methylbenzothiazolyl-2)-disulfide, bis(4-ethylbenzothiazolyl-2)-disulfide, bis(5-methylbenzothiazolyl-2)-disulfide, bis(5-ethylbenzothiazolyl-2)-disulfide, bis(6-methylbenzothiazolyl-2)-disulfide, and bis(6-ethylbenzothiazolyl-2)-disulfide; bis(dialkylbenzothiazolyl-2)-disulfides, such as bis(4,5-dimethylbenzothiazolyl-2)-disulfide and bis(4,5-diethylbenzothiazolyl-2)-disulfide; and bis(monoarylbenzothiazolyl-2)-disulfides, such as bis(4-phenylbenzothiazolyl-2)-disulfide, bis(5-phenylbenzothiazolyl-2)-disulfide, and bis(6-phenylbenzothiazolyl-2)-disulfide.

44. (Newly Added) The pneumatic agricultural or industrial tire of claim 1, wherein said benzothiazole accelerator is benzothiazyl disulfide or mercaptobenzothiazole.

45. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein said second polyepoxide is selected from the group consisting of reaction products between an aliphatic polyalcohol and a halohydrin, reaction products between an aromatic polyalcohol and a halohydrin, and reaction products between a novolac phenolic resin or a novolac resorcinol resin and a halohydrin.

46. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein said second polyepoxide is present in said aqueous emulsion in a concentration range of from about 1 to about 5 percent by weight.

47. (Newly Added) The pneumatic agricultural or industrial tire of claim 1, wherein said second polyepoxide is present on said polyester cord in a range of from about 0.3 to about 0.7 percent by weight.

48. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein the tire is cured from the green state at a temperature of from about 150 to about 190°C.

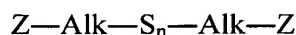
49. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein the tire is cured from the green state at a temperature of from about 160 to about 180°C.

50. (Newly Added) The pneumatic agricultural or industrial tire of claim 48, where the tire is cured for a time range from about 40 to about 150 minutes.

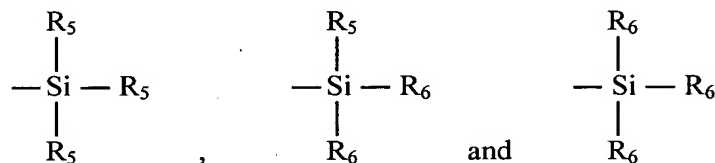
51. (Newly Added) The agricultural or industrial tire of claim 48, wherein the tire is cured for time ranging from about 60 to about 120 minutes.

52. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein said at least one component is selected from carcass plies, belts, and bead inserts.

53. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein said rubber composition further comprises an sulfur containing compound of the formula



in which Z is selected from the group consisting of



where R₅ is an alkyl group of 1 to 4 carbon atoms, cyclohexyl or phenyl; R₆ is alkoxy of 1 to 8 carbon atoms, or cycloalkoxy of 5 to 8 carbon atoms; Alk is a divalent hydrocarbon of 1 to 18 carbon atoms and n is from 2 to 8.

54. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein

said filler comprises from about 10 to about 100 phr of carbon black and from about 10 to about 30 phr of silica.

55. (Newly Added) The pneumatic agricultural or industrial tire of claim 39, wherein said rubber composition further comprises at least one methylene donor and at least one methylene acceptor.